



Gulf of Mexico Harmful Algal Bloom Bulletin

23 April 2007

NOAA Ocean Service

NOAA Satellites and Information Service

Last bulletin: April 19, 2007

Conditions Report

There is no indication of harmful algal bloom presence alongshore Southwest Florida, including the Keys region, at the present time. No impacts are expected in any Florida County today through Wednesday.

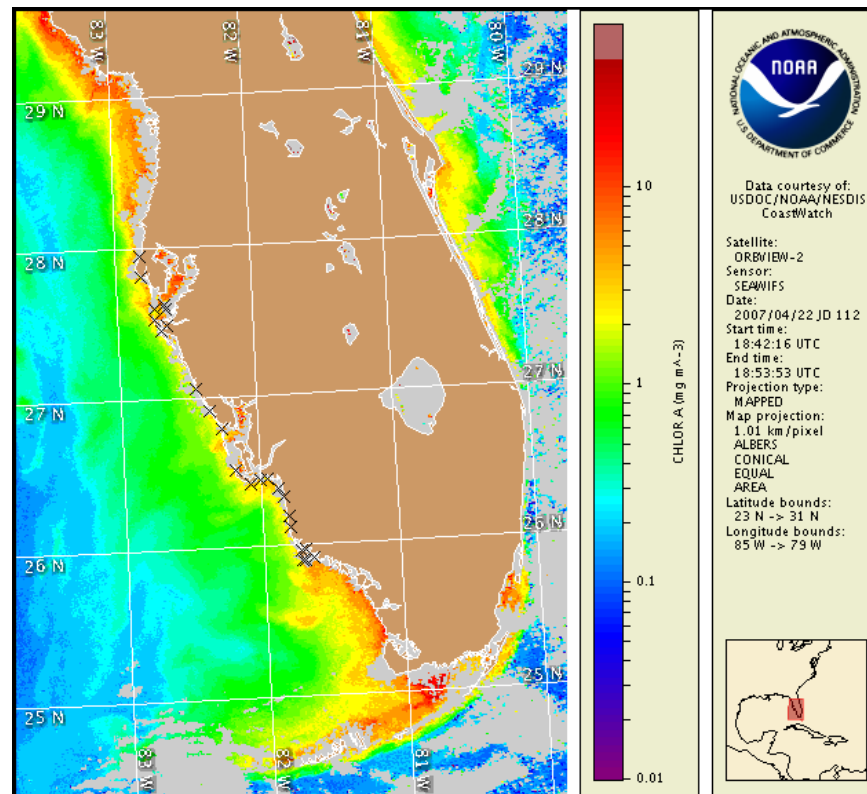
Analysis

No samples containing above background levels of *Karenia brevis* have been identified alongshore of southwest Florida or in the Lower Florida Keys in almost four weeks (FWRI, MML).

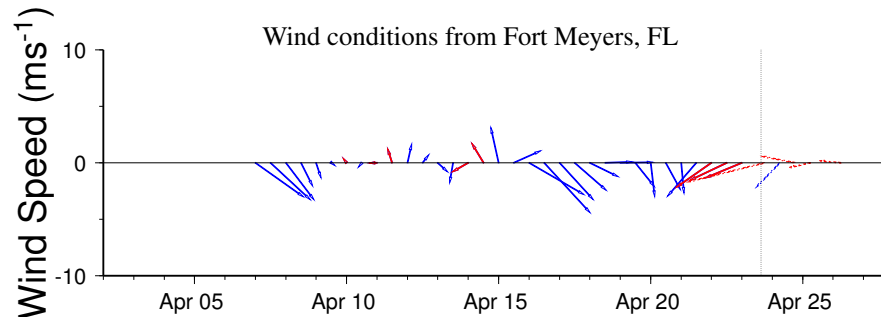
An elevated chlorophyll (~3 $\mu\text{g/L}$) patch located approximately 24 miles south of Cape Romano extends from 25°32'N 81°52'W eastward to 25°31.8'N 81°37.4'W. This patch has contracted since the last bulletin.

A high chlorophyll band (up to 10 $\mu\text{g/L}$) extending from 29°15.6'N 84°38.8'W (35 miles south of Franklin County) southward to 28°5.2'N 84°27'W is visible on page 2. This band is most likely composed of nonharmful algae (*Trichodesmium erythraeum*).

Urizar, Bronder



Satellite chlorophyll image with possible HAB areas shown by red polygon(s). Cell concentration sampling data from April 13-18 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present). For a list of cell count data providers and a key to the cell concentration categories, please see the the HABFS bulletin guide: http://www.csc.noaa.gov/crs/habf/habfs_bulletin_guide.pdf

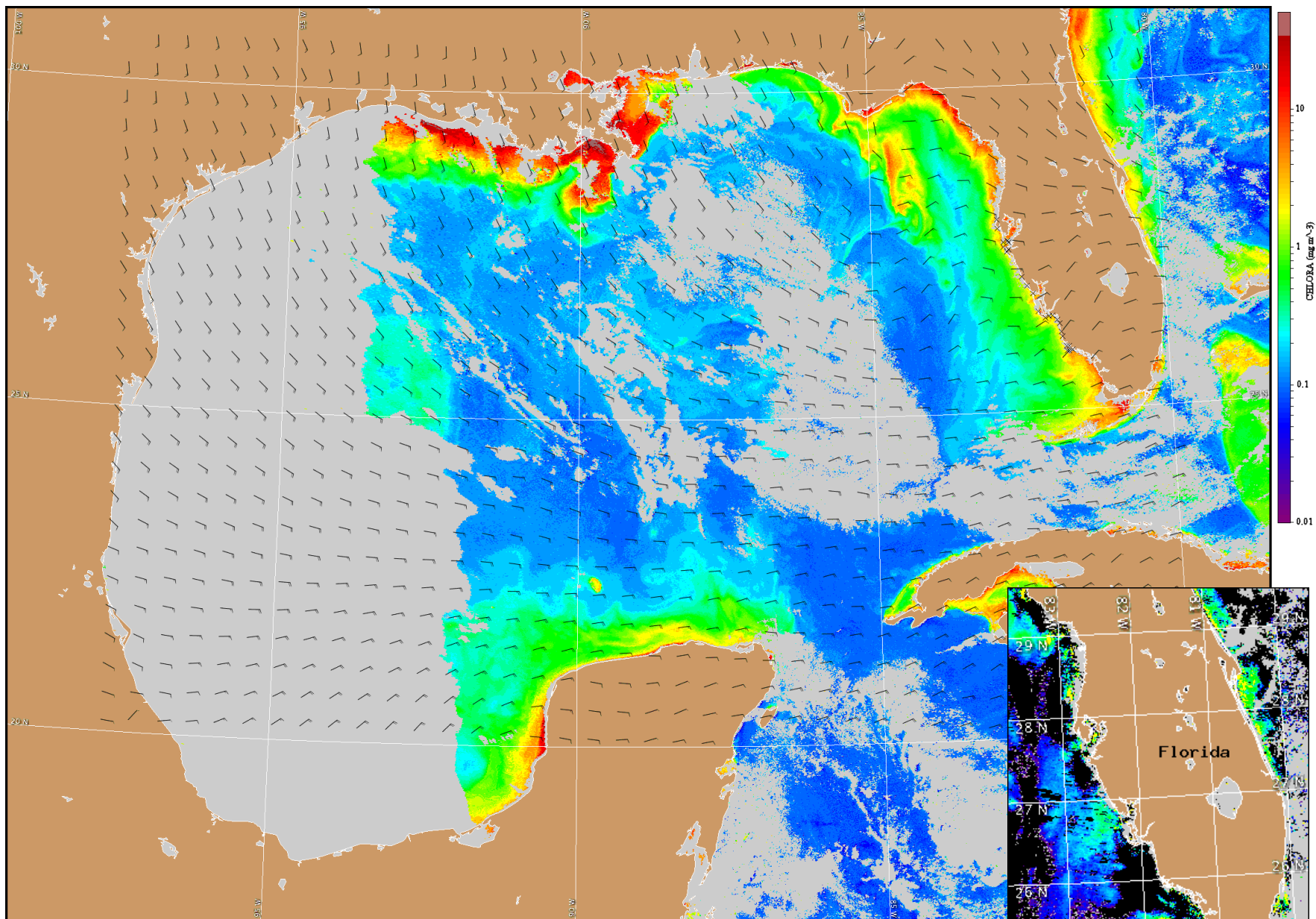


Wind speed and direction are averaged over 12 hours from buoy measurements. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts.

SW Florida: Easterly to northerly winds (5-15 kt, 3-8 m/s) today and Tuesday. Southerly winds (10-15 kt, 5-8 m/s) Wednesday. Southeasterlies Wednesday night (10 kt, 5 m/s).

Please note the following restrictions on all SeaWiFS imagery derived from CoastWatch.

1. Data are restricted to civil marine applications only; i.e. federal, state, and local government use/distribution is permitted.
2. Image products may be published in newspapers. Any other publishing arrangements must receive GeoEye approval via the CoastWatch Program.



Satellite chlorophyll image and forecast winds for April 24, 2007 06Z with cell concentration sampling data from April 13-18 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present). For a list of cell count data providers and a key to the cell concentration categories, please see the HABFS bulletin guide: http://www.csc.noaa.gov/crs/habf/habfs_bulletin_guide.pdf

Verified HAB areas shown in red. Other bloom areas shown in yellow (see p. 1 analysis for interpretation).